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Terms	Documents
18 and (barley or oat or wheat).clm.	6

**Database:** US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Refine Search:

18 and (barley or oat or wheat).clm.

[Clear](#)**Search History****Today's Date: 8/23/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	18 and (barley or oat or wheat).clm.	6	<a href="#">L9</a>
USPT,PGPB,JPAB,EPAB,DWPI	15 and diarrhea\$.clm.	25	<a href="#">L8</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and 14	0	<a href="#">L7</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and 13	4	<a href="#">L6</a>
USPT,PGPB,JPAB,EPAB,DWPI	11 and 13	597	<a href="#">L5</a>
USPT,PGPB,JPAB,EPAB,DWPI	antisecret\$	1997	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI	diarrhea\$ or antidiarrhea\$	7304	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI	malted adj (barley or wheat or oat)	221	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI	barley or wheat or oat	60202	<a href="#">L1</a>

glucose were the carbohydrates. 39 references.

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(FILE 'HOME' ENTERED AT 17:07:52 ON 23 AUG 2001)

FILE 'MEDLINE, CAPLUS, FSTA' ENTERED AT 17:08:41 ON 23 AUG 2001

L1 340016 S CEREAL OR OAT OR BARLEY OR RYE OR WHEAT OR SORGHUM OR CORN  
O  
L2 53905 S MALT###  
L3 10160 S L2 (S) L1  
L4 4124 S ANTISECRET?  
L5 1987 S ANTIDIARRHEAL#  
L6 49 S MALTED (W) CEREAL#  
L7 470 S MALTED (W) (BARLEY OR RYE OR OAT OR WHEAT)  
L8 1 S L3 AND L5  
L9 2 S L3 AND L4  
L10 1 S L9 NOT L8  
L11 19 S L1 AND L5  
L12 19 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)  
L13 15 S L4 AND L1  
L14 11 S L13 NOT L12  
L15 10 S L14 NOT L9  
L16 7 DUPLICATE REMOVE L15 (3 DUPLICATES REMOVED)  
L17 53431 S DIARRHEA?  
L18 12 S L3 AND L17  
L19 12 S L18 NOT L12  
L20 12 S L19 NOT L16  
L21 11 S L20 NOT L9  
L22 10 DUPLICATE REMOVE L21 (1 DUPLICATE REMOVED)

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	106.08	106.38
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-14.70	-14.70

STN INTERNATIONAL LOGOFF AT 17:39:41 ON 23 AUG 2001

L12 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1984:598189 CAPLUS

DOCUMENT NUMBER: 101:198189

TITLE: Antidiarrhea compositions containing minerals and sodium acrylate polymers

PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 59065016	A2	19840413	JP 1982-174570	19821006
JP 03014290	B4	19910226		

AB Feeds contg. insol. minerals, such as  $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$  and bentonite, and poly(Na acrylate) [25549-84-2] are effective in controlling diarrhea in calves, piglets, and puppies. Thus, silica clay 10, poly(Na acrylate) 2, soybean ext. 1, defatted **wheat** buds 2, beer yeast 2, flour 1.58, vitamins 0.2, minerals 0.2, and lactobacilli 0.02 kg were mixed to obtain an antidiarrhea compn. for piglets.

L12 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1992:476512 CAPLUS

DOCUMENT NUMBER: 117:76512

TITLE: Amylase-electrolyte oral rehydration method and composition

INVENTOR(S): Lebenthal, Emanuel

PATENT ASSIGNEE(S): Boatwright, Doyle W., USA

SOURCE: U.S., 6 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5120539	A	19920609	US 1991-643414	19910122
CA 2100252	AA	19920723	CA 1992-2100252	19920121
WO 9212721	A1	19920806	WO 1992-US470	19920121
W: BR, CA, JP, SD				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
BR 9205496	A	19940301	BR 1992-5496	19920121
JP 06504552	T2	19940526	JP 1992-505385	19920121
PRIORITY APPLN. INFO.:			US 1991-643414	19910122
			WO 1992-US470	19920121

AB A natural source of complex carbohydrates is boiled to produce an aq. soln. of dextrorotatory polysaccharides having a desired osmolarity and electrolyte concn. The product in combination with amylase is useful in treating diarrhea in children. For example, an **antidiarrheal** compn. contains .alpha.-amylase and short chain glucose polymers.

L12 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:699181 CAPLUS  
 DOCUMENT NUMBER: 127:345725  
 TITLE: Dietary fiber compositions and their uses  
 INVENTOR(S): Kaneuchi, Osamu; Agata, Kazue  
 PATENT ASSIGNEE(S): Kirin Brewery Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09278664	A2	19971028	JP 1996-83778	19960405

AB Title compns., useful as foods, beverages, intestinal mucosa enhancers, defecation promoters, and intestinal function improvers, contain (a) protein- and insol. dietary fiber-contg. substances from **barley** germ or germinated rice seed and (b) water-sol. dietary fibers. Wet beer lees was pressed, sieved, dried, and pulverized to give a substance contg. protein 53.4, lipid 12.6, ash 2.0, and dietary fiber 32.1 wt.%. A mixt. of the substance and polydextrose (5:3) was added to a feed at 16% and fed to rats for 10 days to result in increase of feces dry wt. and intestinal mucosa protein and inhibition of diarrhea.

L22 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS  
1996:637637 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

1996:637637 CAPLUS

125:274318

Process for enhancing the nutritional value of soy  
protein for the young animal

Johnston, Charles

Ohio State University, USA

U.S., 13 pp.

CODEN: USXXAM

Patent

English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5565225	A	19961015	US 1995-397509	19950301

AB The present invention provides a novel soy flour-wheat flour feed, referred to herein as "MSWF feed" useful as a protein source in the diets of animals. Such MSWF feed is particularly useful for at least partially replacing milk as a protein source in the diets of young animals. The MSWF feed comprises modified soy flour, modified **wheat** flour and **malted** grain, preferably **malted barley**, and preferably yeast. Preferably, the **wheat** flour and soy flour are added in a ratio of from about 2:1 to about 0.1:9.9, by wt. and from

about 0.25 to about 25% by wt. of the combined soy flour-**wheat** flour wt. of the **malted** grain. Unlike conventional soy flour, the MSWF feed does not induce **diarrhea**, poor growth or wt. loss assocd. with an allergic response. The MSWF feed is useful in the diets of young domestic animals, and is also useful as a food for humans particularly where an allergic reaction to soy flour is a problem. In

the preferred embodiment, the MSWF feed is also useful in that it possesses improved suspending and dispersing characteristics when compared to conventional soy flour. The invention also relates to the process for feeding with the MSWF feed and making the MSWF feed.

L22 ANSWER 4 OF 10 MEDLINE

L22 ANSWER 2 OF 10 MEDLINE DUPLICATE 1  
 ACCESSION NUMBER: 97249685 MEDLINE  
 DOCUMENT NUMBER: 97249685 PubMed ID: 9095551  
 TITLE: Preventive effect of germinated barley foodstuff on **diarrhea** induced by water-soluble dietary fiber in rats.  
 AUTHOR: Kanauchi O; Nakamura T; Agata K; Fushiki T  
 CORPORATE SOURCE: Applied Bioresearch Center, Kirin Brewery Co., Ltd., Gunma, Japan.  
 SOURCE: BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (1997 Mar) 61 (3) 449-54.  
 Journal code: BDP; 9205717. ISSN: 0916-8451.  
 PUB. COUNTRY: Japan  
 LANGUAGE: English  
 FILE SEGMENT: B  
 ENTRY MONTH: 199705  
 ENTRY DATE: Entered STN: 19970523  
 Last Updated on STN: 19970523  
 Entered Medline: 19970513

AB We investigated the preventive effect of germinated **barley** foodstuff (GBF) added to the diet on **diarrhea** induced by the dietary water-soluble dietary fibers, polydextrose, hemicellulose, and poly-acrylic acid sodium salt, in Sprague-Dawley rats. The minimum content of GBF necessary for blocking **diarrhea** was 3% (by weight) of the diet. Since GBF is mainly derived from the aleurone and scutellum of **malted barley**, we assessed the physiological effects of the aleurone and scutellum fractions derived from **barley** grains before and after germination. The addition of fractions containing only germinated **barley**, and not **barley** collected before germination, increased the fecal output and jejunal mucosal protein content. The effects of **malted barley** were very similar to those of GBF. It was concluded that germination was necessary to bring about the physiological effects of GBF. Since non-lignified hemicellulose and Gln-rich protein were newly synthesized during germination, these might have contributed to the increased fecal output and jejunal mucosal protein content.

L22 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS